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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|--------------------------------------|----------------------|-------------------------|------------------|
| 10/759,855 | 01/16/2004 | Tien-Chun Yang | 0180185 | 8750 |
| 25700 | 7590 02/23/2005 | | EXAMINER | |
| FARJAMI & FARJAMI LLP | | | WELLS, KENNETH B | |
| | LAMEDA AVENUE, SUI IEJO, CA 92691 | ART UNIT | PAPER NUMBER | |
| | , | | 2816 | <u> </u> |
| | | | DATE MAILED: 02/23/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
|--|--|---|--|--|--|--|
| Office Action Summary | | 10/759,855 | YANG ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | | Kenneth B. Wells | 2816 | | | |
| Period fo | The MAILING DATE of this communication a or Reply | ppears on the cover sheet with the | ne correspondence address | | | |
| A SH THE - Exte after - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a report of the provision of the pr | I. 1.136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS ate, cause the application to become ABAND | the timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)[| Responsive to communication(s) filed on 16 | January 2004. | | | | |
| 2a)□ | • | nis action is non-final. | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposit | ion of Claims | | | | | |
| 5)□ 6)⊠ 7)□ | 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. | | | | | |
| Applicat | ion Papers | | | | | |
| 10)⊠ | The specification is objected to by the Examination The drawing(s) filed on 16 January 2004 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the I | re: a) ☐ accepted or b) ☒ object te drawing(s) be held in abeyance. tection is required if the drawing(s) is | See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d). | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | |
| a) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document according to the priority document according to the certified copies of the priority document application from the International Bure See the attached detailed Office action for a list | nts have been received. nts have been received in Applic iority documents have been rece au (PCT Rule 17.2(a)). | cation No eived in this National Stage | | | |
| Attachmen | ıt(s) | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Characteristics of Draftsperson's Patent Drawing Review (P10-948) Paper No(s)/Mail Date | | | | | | |

1. The disclosure is objected to because of the following informalities: on page 9, line 14, "a load" (second occurrence) should be deleted.

Appropriate correction is required.

2. The drawings are objected to because in Fig. 1, it is not clear why node 122 is referred to as an input voltage of the sense amplifier, i.e., it appears to be an output terminal since it is taken at the drain of FET 104.

Applicant should clear up this ambiguity in response to this office action, i.e., where does voltage signal SAIN come from/go to?

Fig. 1 is also objected to because the depiction of the NFETs 104, 106 and 108 is misleading, i.e., the small circle shown at their respective gate inputs should be removed (this designation implies that they are PMOS type FETs which is not the case).

Corrected drawing sheets in compliance with 37 CFR

1.121(d) are required in reply to the Office action to

avoid abandonment of the application. Any amended

replacement drawing sheet should include all of the figures

appearing on the immediate prior version of the sheet, even

if only one figure is being amended. The figure or figure

number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In independent claims 1 and 14, it cannot be determined what is meant by "intrinsic" FETs, i.e., this is

not a term of art, and has not been defined by applicant is the instant specification.

In each of the independent claims, it cannot be determined if the "target memory cell and bit line" set forth on the first three lines are part of the claimed invention or not. It appears that they are merely intended use and thus are not part of the claimed invention, but applicant should clarify this point in response to this office action so that no ambiguity exists. Note also that claim 6 implies that the target memory cell is in fact part of the claimed invention.

In claim 4, the term "corresponds" is vague and indefinite, i.e., it cannot be determined how the control signal DCNT and the voltage on bit line 116 "correspond" to each other.

- 3. Claims 1-20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth B. Wells
Primary Examiner
Art Unit 2816

February 18, 2005